IS-IP290

User Manual

Ver 1.0

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1. Overview

The IS-IP290 camera is a Quad-streaming, H.264 & MJPEG encoding, 2.0 Megapixel resolution, IP-addressable network camera. It is designed to deliver full-motion, high-definition, progressive scan digital video across local area networks. The IS-IP290 features a design with no moving parts, with Power over Ethernet, 18x Optical Zoom, a 1/2.8” CMOS sensor, and Audio-In/Audio-Out. The IS-IP290 is a high-level, cost effective, megapixel network camera that provides the ability to observe closer without noise and degradation.

1.1 Features

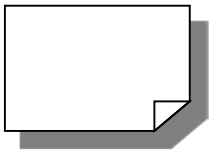
- Sony Progressive CMOS Sensor
- 18x Optical Zoom with AF, f= 4.7~84.6mm
- Quad Streams support
- Dual Streams, Full HD 1080P real-time + D1 real-time
- Quad Streams Compression:
  H.264 Baseline / Main / High Profile + MJPEG
- Multi-language support
- Tampering Alarm
- Wide Dynamic Range
- Motion Detection
- Privacy Masks
- Smart Picture Quality / 3D Noise Reduction
- Vertical View Mode (Image rotation by 90 degrees)
- Smart IR Mode
- Network Failure Detection
- Day / Night (ICR)
- Micro SD support
- BNC Analog Output
- RS-485 support
- ONVIF Support

1.2 Package Contents

Please check the package contains the following items listed below.

Camera

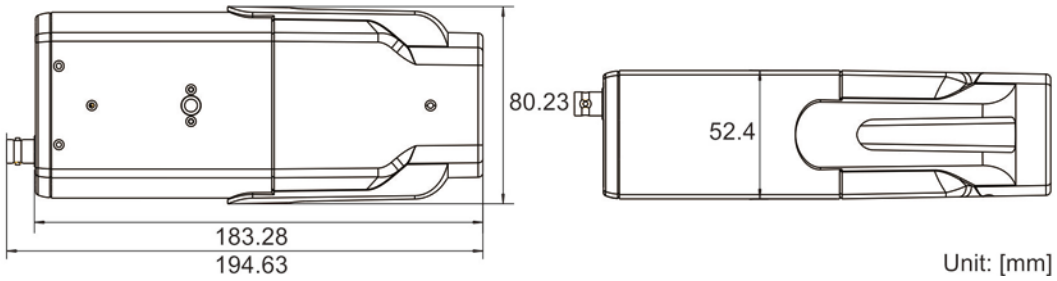
Power terminal block



Quick Guide

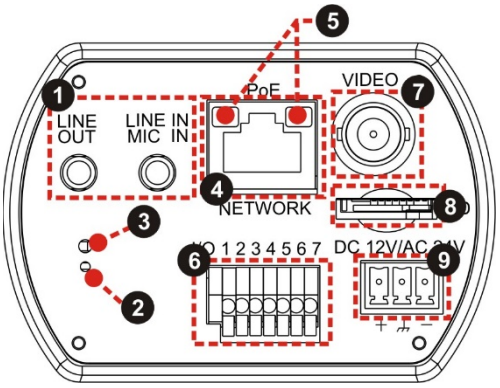
1.3 Dimensions

The IS-IP290 dimensions are shown below.



1.4 Connectors

The diagram below shows the IS-IP290 reset button and various connectors. Definition for each connector will be given as follows.



No	Definition	Remarks			
1	LINE OUT & LINE IN / MIC IN	Two-way audio transmission			
2	Power LED	Power connection indication (green light).			
3	Reset button	Reset to factory default			
4	NETWORK (with PoE)	RJ-45 connector			
5	Network LEDs	Network connection and activity indication			
6	I/O	1	Output＋	5	GND
		2	Output－	6	D－
		3	Input＋	7	D＋
		4	Input－		
7	VIDEO (BNC connector)	For video output			
8	SD (Micro SD Card slot)	For video recording storage			
9	AC 24V/DC 12V connector	＋	AC 24V: Power-1	DC 12V: Power	
		⏚	AC 24V: Earth GND	DC 12V: Reserved	
		－	AC 24V: Power-2	DC 12V: GND	

2 Camera Cabling

Please follow the instructions below to complete the IS-IP290 installation.

2.1 Connect Power

Please refer to SECTION: CONNECTORS. Alternatively, connect the Ethernet cable to the camera's PoE port and plug the other end of the cable into a PoE switch.

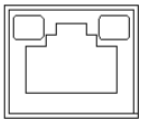
NOTE: If using PoE, make sure Power Sourcing Equipment (PSE) is in use in the network.

2.2 Connect Ethernet Cable

Use of Category 5 Ethernet cable is recommended for network connection; to have best transmission quality, cable length shall not exceed 100 meters. Connect one end of the Ethernet cable to the RJ-45 connector of the IS-IP290, and the other end of the cable to the network switch or PC.

NOTE: In some cases, you may need use an Ethernet crossover cable when connecting the IS-IP290 directly to the PC.

Check the status of the link indicator and activity indicator LEDs; if the LEDs are unlit, please check LAN connection.

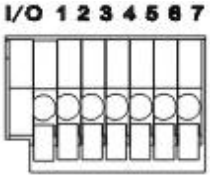


Green Link Light indicates good network connection.

Orange Activity Light flashes for network activity indication.

2.3 Connect Alarm I/O

The camera equips one alarm input and one relay output for alarm application. Refer to alarm pin definition below to connect alarm devices to the IS-IP290 if needed.



1. Output+
2. Output-
3. Input+
4. Input-

3. System Requirements

To access the IS-IP290 via web browser, please ensure your PC has a good network connection, and meets system requirements as described below.

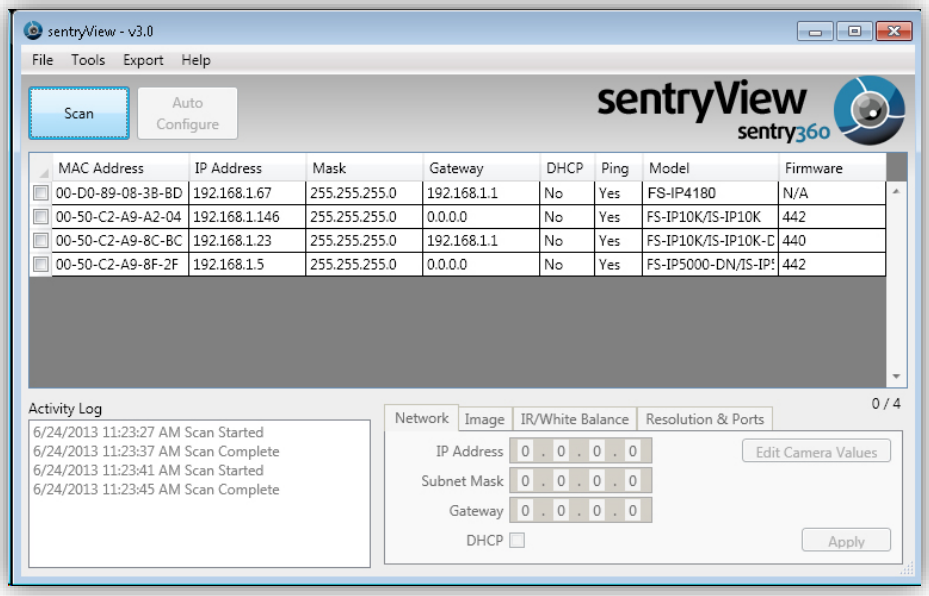
Items	System Requirement
Personal Computer	1. Intel® Pentium® M, 2.16 GHz or Intel® Core™ 2 Duo, 2.0 GHz 2. 2 GB RAM or more
Operating System	Windows VISTA/ Windows XP/ Windows 7
Web Browser	Microsoft Internet Explorer 6.0 or later Firefox Chrome Safari
Network Card	10Base-T (10 Mbps) or 100Base-TX (100 Mbps) operation
Viewer	ActiveX control plug-in for Microsoft IE

4. Access Camera

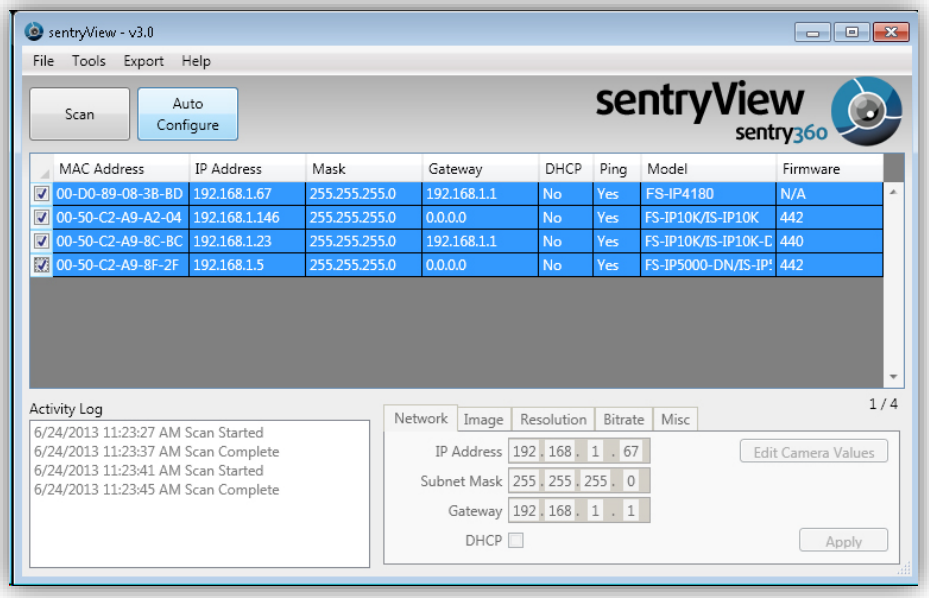
Step 1. Power your camera using the correct power source (PoE switch, PoE injector, or 12V adapter).

Step 2. Download, install, and run sentryView™, Sentry360's camera configuration tool, here: http://sentry360.com/product/sentryview/

Step 3. Click the **Scan** button in sentryView™ to scan your network for connected cameras.


sentryView - v3.0
File Tools Export Help
Scan
Auto Configure
sentryView
sentry360
MAC Address IP Address Mask Gateway DHCP Ping Model Firmware
00-D0-89-08-3B-BD 192.168.1.67 255.255.255.0 192.168.1.1 No Yes FS-IP4180 N/A
00-50-C2-A9-A2-04 192.168.1.146 255.255.255.0 0.0.0.0 No Yes FS-IP10K/IS-IP10K 442
00-50-C2-A9-8C-BC 192.168.1.23 255.255.255.0 192.168.1.1 No Yes FS-IP10K/IS-IP10K-D 440
00-50-C2-A9-8F-2F 192.168.1.5 255.255.255.0 0.0.0.0 No Yes FS-IP5000-DN/IS-IP 442
0 / 4
Activity Log
6/24/2013 11:23:27 AM Scan Started
6/24/2013 11:23:37 AM Scan Complete
6/24/2013 11:23:41 AM Scan Started
6/24/2013 11:23:45 AM Scan Complete
Network Image IR/White Balance Resolution & Ports
IP Address 0 . 0 . 0 . 0
Subnet Mask 0 . 0 . 0 . 0
Gateway 0 . 0 . 0 . 0
DHCP
Edit Camera Values
Apply

Step 4. To automatically configure your camera network settings, check the boxes of the cameras you want to configure. Then click **Auto Configure**.


sentryView - v3.0
File Tools Export Help
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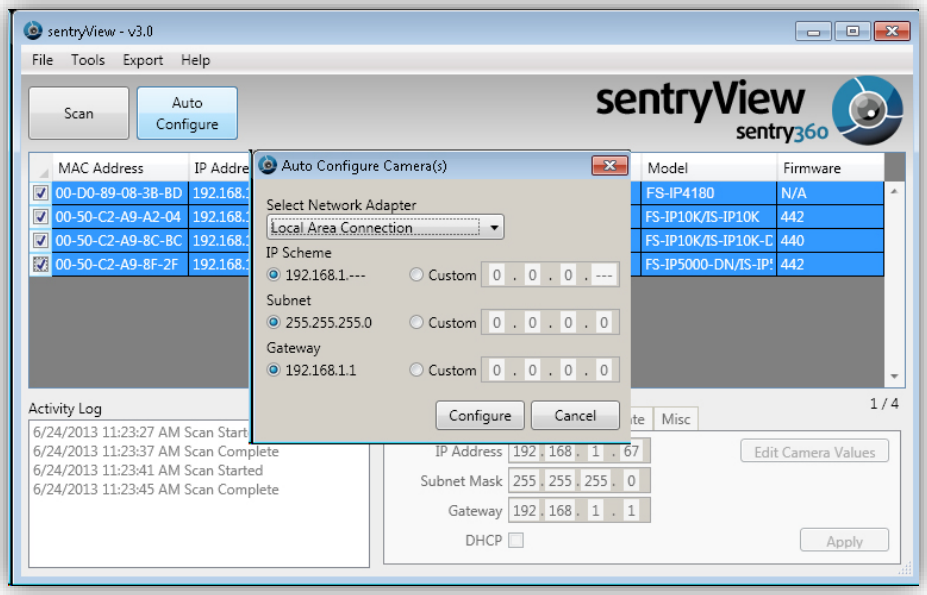
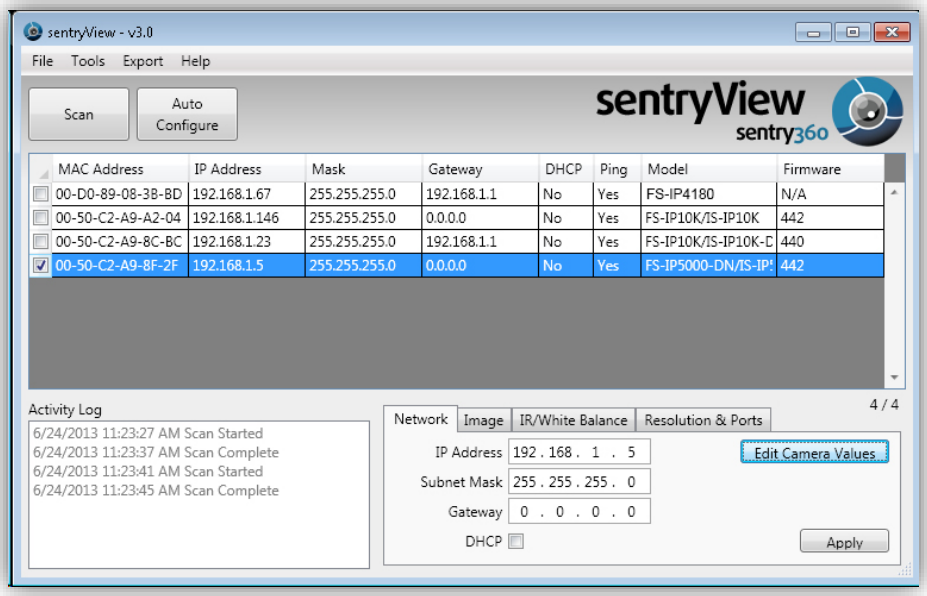
MAC Address IP Address Mask Gateway DHCP Ping Model Firmware
00-D0-89-08-3B-BD 192.168.1.67 255.255.255.0 192.168.1.1 No Yes FS-IP4180 N/A
00-50-C2-A9-A2-04 192.168.1.146 255.255.255.0 0.0.0.0 No Yes FS-IP10K/IS-IP10K 442
00-50-C2-A9-8C-BC 192.168.1.23 255.255.255.0 192.168.1.1 No Yes FS-IP10K/IS-IP10K-D 440
00-50-C2-A9-8F-2F 192.168.1.5 255.255.255.0 0.0.0.0 No Yes FS-IP5000-DN/IS-IP 442
1 / 4
Activity Log
6/24/2013 11:23:27 AM Scan Started
6/24/2013 11:23:37 AM Scan Complete
6/24/2013 11:23:41 AM Scan Started
6/24/2013 11:23:45 AM Scan Complete
Network Image Resolution Bitrate Misc
IP Address 192 . 168 . 1 . 67
Subnet Mask 255 . 255 . 255 . 0
Gateway 192 . 168 . 1 . 1
DHCP
Edit Camera Values
Apply

Step 5. Confirm your network settings and click **Configure**.



Step 6. To manually configure your cameras, click **Edit Camera Values** at the bottom right, enter your IP Address, Subnet Mask, Gateway, and DHCP settings. Click **Apply** to save these values.



Step 7. Your cameras are now configured. If you are using sentryCore™ as your Video Management System, please download the latest version here: http://sentry360.com/product/sentrycore/

Step 8. Right click on a camera and select **Browse**. The prompt for entering the default username and password will appear for logging in to the IS-IP290.

The default login ID and password for the Administrator are:

Login ID	Password
Admin	1234

NOTE: ID and password are case sensitive.

Installing DC Viewer Software Online

For the initial access to the IS-IP290, a client program, DC Viewer, will be automatically installed to the PC when connecting to the camera.

If the web browser doesn't allow DC Viewer installation, please check the Internet security settings or ActiveX controls and plug-ins settings (refer to APPENDIX B: SETUP INTERNET SECURITY) to continue the process.

The Information Bar (just below the URL bar) may come out and ask for permission to install the ActiveX Control for displaying video in browser. Right click on the Information Bar and select <Install ActiveX Control…> to allow the installation. Then the security warning window will pop up. Click on <Install> to carry on software installation.

The download procedure of DC Viewer software is specified as follows.

Step 1. In the DC Viewer installation window, click on <Next> to start installation.

Step 2. The status bar will show the installation progress. After the installation is completed, click on <Finish> to exit the installation process.

Step 3. Click on <Finish> to close the DC Viewer installation page.

Once the DC Viewer is successfully installed, the IS-IP290 Home page will be able to correctly display as the figure below.

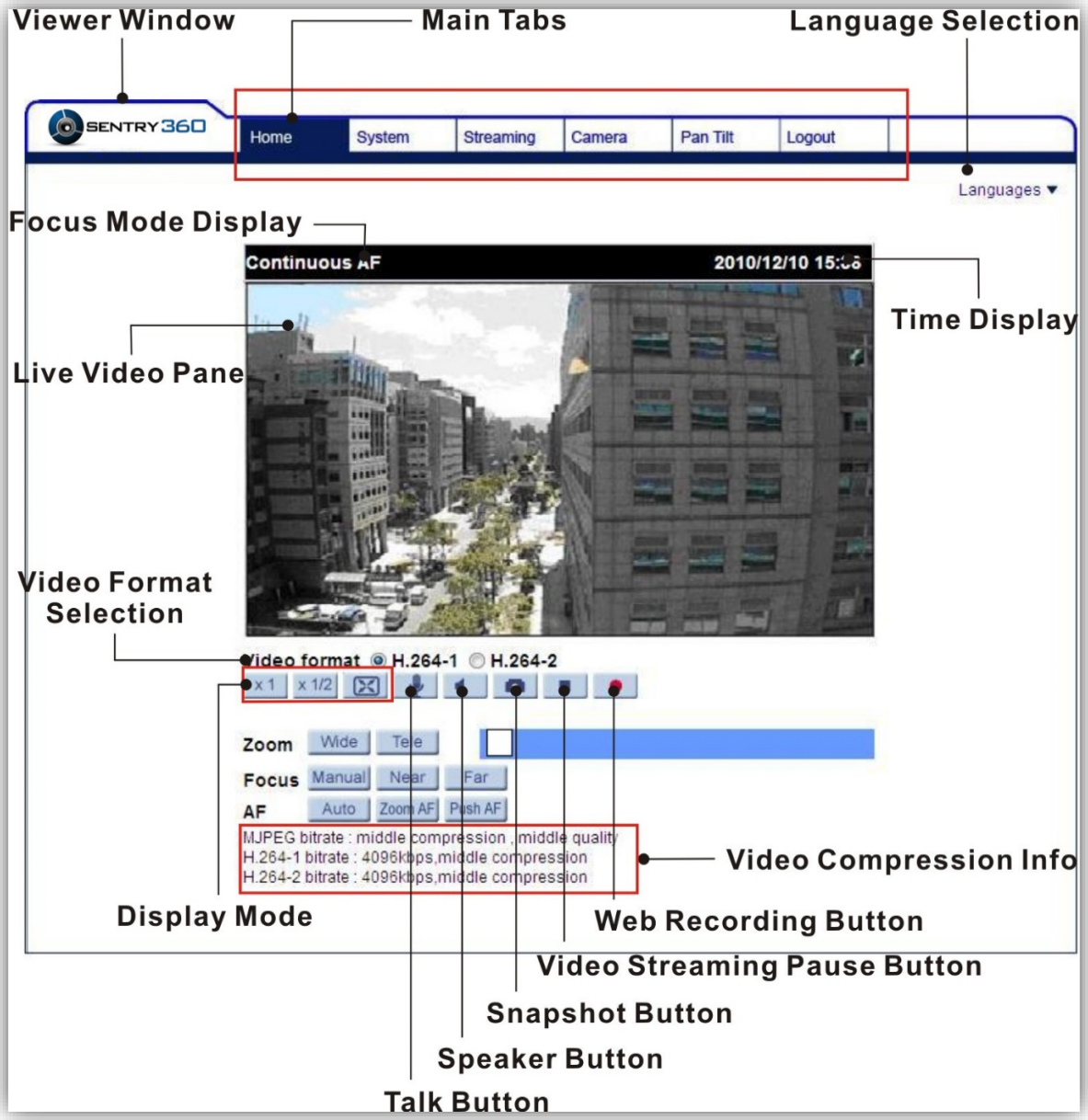


Image and Focus Adjustment

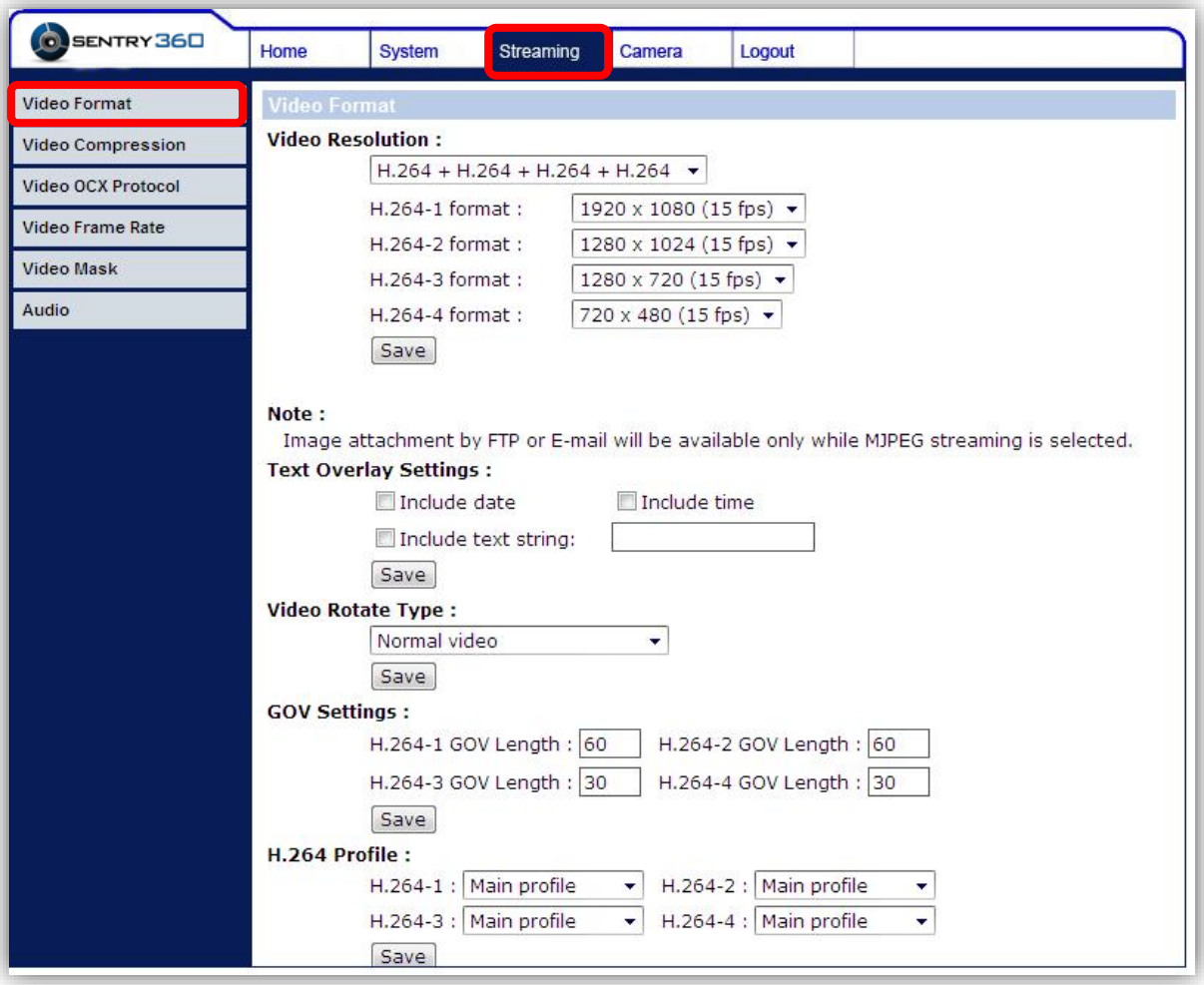
The image displays on the Home page when successfully accessing to the IS-IP290. Adjust zoom and focus as necessary to produce a clear image.

Note: Please refer to IS-IP290 MENU TREE for more button function detail.

5. Configure Video Streams

Users can setup Video Resolution on the Video Format page of the user-friendly browser-based configuration interface.

Video Format can be found under this path: **Streaming > Video Format**.



Click on <Save> to confirm the setting.

6. Configuration Files Export / Import

To export/ import configuration files, users can access the Maintenance page on the user-friendly browser-based configuration interface.

The Maintenance setting can be found under this path: **System > Maintenance**.

Users can export configuration files to a specified location and retrieve data by uploading an existing configuration file to the IS-IP290.

Export

Users can save the system settings by exporting the configuration file (.bin) to a specified location for future use. Click on the <Export> button, and the popup File Download window will come out. Click on <Save> and specify a desired location for saving the configuration file.

Upload

To copy an existing configuration file to the IS-IP290, please first click on <Browse> to select the configuration file, and then click on the <Upload> button for uploading.

Appendix A: Delete the Existing DC Viewer

For users who have installed the DC Viewer in the PC previously, please first remove the existing DC Viewer from the PC before accessing the IS-IP290.

Deleting the DC Viewer

In the Windows <Start Menu>, activate <Control Panel>, and then double click on <Add or Remove Programs>. In the <Currently installed programs> list, select <DCViewer> and click on the button <Remove> to uninstall the existing DC Viewer.

Deleting Temporary Internet Files

To improve browser performance, it is suggested to clean up all the files in the <Temporary Internet Files>. The procedure is as follows.

Step 1. In the web browser, click on the <Tools> tab on the menu bar and select <Internet Options>.

Step 2. Click on the <Delete> button under the <Browsing History> section.

Step 3. In the opened window, tick the box beside <Temporary Internet Files> and click on <Delete> to start deleting the files.

Appendix B: Setup Internet Security

If ActiveX control installation is blocked, please either set Internet security level to default or change ActiveX controls and plug-ins settings.

Internet Security Level: Default

Step 1. Start the Internet Explorer (IE).

Step 2. Click on the <Tools> tab on the menu bar and select <Internet Options>.

Step 3. Click on the <Security> tab, and select <Internet> zone.

Step 4. Down the page, click on the <Default Level> button and click on <OK> to confirm the setting. Close the browser window, and restart a new one later to access the IS-IP290.

ActiveX Controls and Plug-ins Settings

Step 1. Repeat **Steps 1 ~ 3** of the previous section above.

Step 2. Down the page, click on the <Custom Level> button to change ActiveX controls and plug-ins settings. The Security Settings window will pop up.

Step 3. Under <ActiveX controls and plug-ins>, set **ALL** items (as listed below) to <Enable> or <Prompt>. Please note that the items vary by IE version.

ActiveX controls and plug-ins settings:

1. Binary and script behaviors.
2. Download signed ActiveX controls.
3. Download unsigned ActiveX controls.
4. Allow previously unused ActiveX controls to run without prompt.
5. Allow Scriptlets.
6. Automatic prompting for ActiveX controls.
7. Initialize and script ActiveX controls not marked as safe for scripting.
8. Run ActiveX controls and plug-ins.
9. Only allow approved domains to use ActiveX without prompt.
10. Script ActiveX controls marked safe for scripting*.
11. Display video and animation on a webpage that does not use external media player.

Step 4. Click on <OK> to accept the settings. A prompt window will appear for confirming the setting changes, click <Yes(Y)> to close the Security Setting window.

Step 5. Click on <OK> to close the Internet Options screen.

Step 6. Close the browser window, and restart a new one to access the IS-IP290.